

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/631,958	KOSSIDA ET AL.	
	Examiner Maryam Monshipouri	Art Unit 1653	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to \_\_\_\_\_.
2.  The allowed claim(s) is/are 10, 12, 13, 14 and 23.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date filed 8/1/03
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date 9/14/05
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other See Continuation Sheet.

Continuation of Attachment(s) 9. Other: see attachments to interview summary.

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Ms. Lisa M. Hemmendinger, on 9/15/2005.

**Examiner's Amendment to the Claims**

Cancel claims 11 and 15.

In claim 10, line 2, after "consisting of " delete "(a) ".

In claim 10, line 2, after "SEQ ID NOS:", delete "2".

In claim 10, lines 2-3, delete "and (b) biologically active variants thereof ".

In claim 14, line 2, after "consisting of " delete "(a) ".

In claim 14, line 3, after "SEQ ID NOS:", delete "2".

In claim 14, after "10," , delete "or", and substitute therefor --- and ---.

In claim 14, line 3, delete "and (b) biologically active variants thereof".

In claim 23, line 3, after "SEQ ID NOS:", delete "2".

In claim 23, line 2, after "consisting of " delete "(a) ".

In claim 23, line 3, after "11", delete ", and (b) biologically active variants thereof".

In claim 23, line 6, delete " claim 21' and substitute therefor --- detecting said polypeptide comprising the steps of: contacting a biological sample with said antibody to form a reagent -polypeptide complex; and

detecting the antibody-polypeptide complex. ---.

This application is in condition for allowance except for the presence of claims 1-9, 16-22, 24-77 drawn to non-elected without traverse. Accordingly, claims 1-9, 16-22, 24-77 have been cancelled.

**Cancel claims 1-9, 16-22, 24-77.**

### **Examiner's Amendments to the Specification**

In page 1, line 2, after "October 4, 2001,", insert --- now abandoned ---.

### **The following is an Examiner's Statement of Reasons for Allowance:**

Claims 10, 12-14 and 23 are directed to an isolated ceramide kinase of specific amino acid sequence and a specifically claimed fragment thereof with said activity, fusion proteins and kits comprising said polypeptides.

Claimed ceramide kinase and said fragment thereof are free of prior art. Further the prior art does not teach or suggest preparing such specifically claimed products. Hence said products are also novel and non-obvious.

Since said polypeptides are both novel and non-obvious fusion proteins and kits comprising said polypeptides are also novel and non-obvious.

**Claims 10, 12-14 and 23 are allowed.**

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maryam Monshipouri whose telephone number is (571) 272-0932. The examiner can normally be reached on 7:00 a.m to 4:30 p.m. except for alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weber Jon P. can be reached on (571) 272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Maryam Monshipouri*

Maryam Monshipouri Ph.D.

Primary Examiner

Attachment

GenCore version 5.1.6  
 Copyright (c) 1993 - 2005 Compugen Ltd.

## OM protein - protein search, using sw model

Run on: September 3, 2005, 04:08:02 ; Search time 64.5137 Seconds

(without alignments)

1990.064 Million cell updates/sec

Title: US-10-631-958-2

Perfect score: 1717

Sequence: 1 PKHLLVPINPFGKGQGKRI.....KCSRNFNLRFIRHTNQQDQ 3 26

Scoring table: BLOSUM62

Gappp'10.0 , Gapext 0.5

Searched: 1774312 seqs, 39893214 residues

Total number of hits satisfying chosen parameters: 1774312

Post-processing: Maximum Match 100%

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1717	100.0	326	9 US-09-784-810A-11	Sequence 11, Appl
2	1717	100.0	326	10 US-09-784-810A-11	Sequence 2, Appl
3	1717	100.0	326	16 US-09-784-810A-11	Sequence 2, Appl
4	1717	100.0	326	18 US-09-784-810A-11	Sequence 6, Appl
5	1717	100.0	471	18 US-09-784-810A-11	Sequence 6, Appl
6	1717	100.0	471	18 US-09-784-810A-11	Sequence 10, Appl
7	1640.5	95.5	537	10 US-09-784-810A-11	Sequence 40, Appl
8	1640.5	95.5	537	16 US-09-784-810A-11	Sequence 10, Appl
9	1640.5	95.5	537	16 US-09-784-810A-11	Sequence 12, Appl
10	1640.5	95.5	537	16 US-09-784-810A-11	Sequence 12, Appl
11	1640.5	95.5	562	10 US-09-784-810A-11	Sequence 12, Appl

BEST AVAILABLE COPY

RESULT 1

US-09-784-810A-11

; Sequence 11, Application US-09784810A

; Patent No. US2004082203A1

; GENERAL INFORMATION:

; APPLICANT: RASPELI, LUCA

; TITLE OF INVENTION: NOVEL SPHINGOSINE KINASES AND NUCLEIC ACIDS ENCODING

; FILE NUMBER: SAME

; FILE PRIORITY: 10/716-08

; CURRENT APPLICATION NUMBER: US-09-784-810A

; CURRENT FILING DATE: 2001-02-14

; PRIOR APPLICATION NUMBER: 60/182,360

; PRIOR FILING DATE: 2000-02-14

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO: 11

; LENGTH: 326

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-784-810A-11

; Query Match

; Best Local Similarity

; Mismatches

; Indels

; Gaps

; 0

; Score 1717; DB 9;

; Length 326;

; Prod. No. 2,seq-172;

;保守型

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; 1 TLYENIDKYGDTIVCGGDMFSEVTLHGLIGRGTSGAGTQNHFRAVLVPSURIGIIPA 120

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 Db 121 GSTDCVCYSTVGTSDAETSALHTIVGDSLAMDYSSVHNSTLIRYSVLLGYGFGDIIK 180  
 QY 181 DSEKKRMLGLARYDFSGLKTFLSHCYCETVSFLPAQHTVGSPRDRKPCRAZCFVCROSK 240  
 Db 181 DSEKKRMLGLARYDFSGLKTFLSHCYCETVSFLPAQHTVGSPRDRKPCRAZCFVCROSK 240  
 QY 241 QLEBEBQKALYGLEAEDVEWQVCGEPLAINATNMSCARSRSRGLSPAAHLGDS 300  
 Db 241 QLEBEBQKALYGLEAEDVEWQVCGEPLAINATNMSCARSRSRGLSPAAHLGDS 300  
 QY 301 DLILRKCSRFNFRFLIRHTNQDQ 326  
 Db 301 DLILRKCSRFNFRFLIRHTNQDQ 326

## RESULT 2

US-10-969-896-2

Sequence 2, Application US/0969896

Publication No. US2003125533A1

GENERAL INFORMATION:

Applicant: Kossida, Sophia

TITLE OF INVENTION: Regulation of human Sphingosine

TITLE OF INVENTION: Kinase-Like Protein

FILE REFERENCE: 004974\_00594

CURRENT APPLICATION NUMBER: US/09/969,896

CURRENT FILING DATE: 2001-10-04

PRIOR APPLICATION NUMBER: US 60/238, 005

PRIOR FILING DATE: 2000-10-06

PRIOR APPLICATION NUMBER: US 60/314, 113

PRIOR FILING DATE: 2001-08-23

NUMBER OF SEQ ID NOS: 16

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 2

LENGTH: 326

TYPE: PRT

ORGANISM: Homo sapiens

US-10-631-958-2

Query Match 100.0%; Score 1717; DB 16; Length 326;  
 Best Local Similarity 100.0%; Pred. No. 2.8e-172;  
 Mismatches 0; Indels 0; Gaps 0;  
 Matches 326; Conservative 0; N mismatches 0;

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 Db 1 PKHLYFINPFGKGQGKRYERKAVAPLTLASTTDIGNKFYNYVETTEHANQAKE 60  
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 Db 61 TLYEINIIDKDGIVCGDGMFSVYLHGLIGRTORSAGYDQNHPRAVLPSLRLIGIIPA 120  
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 Db 121 GSTDCVCYSTVGTSDAETSALHTIVGDSLAMDYSSVHNSTLIRYSVLLGYGFGDIIK 180  
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 Db 181 DSEKKRMLGLARYDFSGLKTFLSHCYCETVSFLPAQHTGSPDRKPCRAZCFVCROSK 240  
 Qy 241 QLEBEBQKALYGLEAEDVEWQVCGEPLAINATNMSCARSRSRGLSPAAHLGDS 300  
 Db 241 QLEBEBQKALYGLEAEDVEWQVCGEPLAINATNMSCARSRSRGLSPAAHLGDS 300  
 Qy 301 DLILRKCSRFNFRFLIRHTNQDQ 326  
 Db 301 DLILRKCSRFNFRFLIRHTNQDQ 326

RESULT 4

US-10-876-281-11

Sequence 11, Application US/10876281  
 Publication No. US2005012394A1

GENERAL INFORMATION:

Applicant: Rastelli, Luca

TITLE OF INVENTION: Novel Sphingosine Kinases and Nucleic Acids Encoding

FILE REFERENCE: 10716-08

CURRENT FILING DATE: 2004-06-24

PRIOR APPLICATION NUMBER: US/09/84, 810

PRIOR FILING DATE: 2001-02-14

PRIOR APPLICATION NUMBER: 60/183, 360

PRIOR FILING DATE: 2000-02-14

PRIOR APPLICATION NUMBER: 60/191, 261

PRIOR FILING DATE: 2000-03-22

NUMBER OF SEQ ID NOS: 29

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO: 11

LENGTH: 326

TYPE: PRT

RESULT 3

US-10-631-958-2

Sequence 2, Application US/10631958

## Attachment

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Db	26 MGATGAAPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGAGADACSVPSRIIAV 85					Db	146 EMLEKLTSPRKHLVFINPGKGKQGKRYERKVKAPLFTLASITTDIVTEHANOAKETL 205
Qy	61 EETDVHKGKQGKMKRKYAFTVHCVKRARRHVKWAQVTFWCPEBOLCHLWQTLR 120					Qy	181 YBINIDKYG1TVCGDGMSESVHLGLIGTORSAGVDQHNPRAVLVPSLSSRLIGTIPAGS 240
Db	86 EETDVHKGKQGKMKRKYAFTVHCVKRARRHVKWAQVTFWCPEBOLCHLWQTLR 145					Db	206 YBINIDKYG1TVCGDGMSESVHLGLIGTORSAGVDQHNPRAVLVPSLSSRLIGTIPAGS 265
Qy	121 EMLEKLTSPRKHLVFINPGKGKQGKMKRKYAFTVHCVKRARRHVKWAQVTFWCPEBOLCHLWQTLR 180					Qy	241 TDCVCYSTVGTSDAETSAHTIVGDSLAMDVSVHINSTLRLYSVSLGKCFYGDIIKDS 300
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Db	206 YBINIDKYG1TVCGDGMSESVHLGLIGTORSAGVDQHNPRAVLVPSLSSRLIGTIPAGS 265					Db	326 EKKRKGIGARYDFSGKLTFSHHCYEGTYSPLAQHTVGSPRDRKEPCTAGCFCVRQSQQ 385
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Qy	301 EKKRKGIGARYDFSGKLTFSHHCYEGTYSPLAQHTVGSPRDRKEPCTAGCFCVRQSQQ 360					Qy	421 IIIRKCSRFNPLFLRHTNQODQFDETVEVYVTKKFQFTSKEMEDEDSDLKEGGKRF 480
Db	326 EKKRKGIGARYDFSGKLTFSHHCYEGTYSPLAQHTVGSPRDRKEPCTAGCFCVRQSQQ 385					Db	446 IIIRKCSRFNPLFLRHTNQODQFDETVEVYVTKKFQFTSKEMEDEDSDLKEGGKRF 505
Qy	361 LEEBQKALYGLEAAEDVEEQVVCSPKLAINTNMSCACRSRSPGLSPAHHLGDDSSL 420					Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537
Db	386 LEEBQKALYGLEAAEDVEEQVVCSPKLAINTNMSCACRSRSPGLSPAHHLGDDSSL 445					Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562
Qy	421 IIIRKCSRFNPLFLRHTNQODQFDETVEVYVTKKFQFTSKEMEDEDSDLKEGGKRF 480						
Db	446 IIIRKCSRFNPLFLRHTNQODQFDETVEVYVTKKFQFTSKEMEDEDSDLKEGGKRF 505						
<b>RESULT 6</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	Sequence 11, Application US/106311958
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Publication No. US20040192580A1
<b>RESULT 7</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	Sequence 2, Application US/1015597A
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Publication No. US20030162206A1
<b>RESULT 8</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	General Information:
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Applicant: Sugura, Masako
<b>RESULT 9</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	Applicant: Kono, Keita
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Applicant: Kohama, Takafumi
<b>RESULT 10</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	Title of Invention: Ceramide Kinase and DNA Encoding It
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Title of Invention: Ceramide Kinase and DNA Encoding It
<b>RESULT 11</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	File Reference: 02658CIP/HG
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Current Application Number: US/10/315,597A
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Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	Current Application Number: US/10/315,597A
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Prior Application Number: JP 2000-178039
<b>RESULT 13</b>							
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Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Software: PatentIn Ver. 2.0
<b>RESULT 14</b>							
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Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Length: 537
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Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Organism: Homo sapiens
<b>RESULT 16</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	US-10-315-597A-2
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	US-10-315-597A-2
<b>RESULT 17</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	Query Match: 99.7%; Score: 2880; DB: 14; Length: 537;
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	Best Local Similarity: 99.6%; Pred. No. 1.9-277; Mismatches: 1; Indels: 0; Gaps: 0;
<b>RESULT 18</b>							
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Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 19</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 20</b>							
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Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 21</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 22</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 23</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 24</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 25</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 26</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 27</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 28</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 29</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 30</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 31</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 32</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 33</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 34</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 35</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 537					Qy	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
Db	506 GHICSSHSPSCCTVNSNESSWNCIDGEVLSHPLAEVVRHCOLVLFARGIEENPKPDSHS 562					Db	1 MGATGAEPLOSSVTVKQRCVAVSLEPARALLRWRSPPGPAGADACSVPSRIIAV 60
<b>RESULT 36</b>							
Qy	481 GHICSSHSPSCCTVNSNESSWNC						

QY 241 TDCYCYSITGTSDAETSAIHLIVVGSISYTHNSTLRLYSVSLIGPFDIKIDS 300  
 Db 241 TDCYCYSITGTSDAETSAIHLIVVGSISYTHNSTLRLYSVSLIGPFDIKIDS 300

QY 301 EKCRWLGLARYDESGLKTLFLSHCCTGTYTSPFLPAQHTVGSPRDKPCRAACFVCRQSKQ 360  
 Db 301 EKCRWLGLARYDESGLKTLFLSHCCTGTYTSPFLPAQHTVGSPRDKPCRAACFVCRQSKQ 360

QY 361 LEEBQKALYGLRRAEDVEBWQVVGKPLAINATNMSACRSPRGLSPAAHLDGSSDL 420  
 Db 361 LEEBQKALYGLRRAEDVEBWQVVGKPLAINATNMSACRSPRGLSPAAHLDGSSDL 420

QY 421 ILIRKCSRNFLREPLIRHTNQDQDFDTEVEVRYRKKEFTSKHMEDEDSDLKEGGKRRF 480  
 Db 421 ILIRKCSRNFLREPLIRHTNQDQDFDTEVEVRYRKKEFTSKHMEDEDSDLKEGGKRRF 480

QY 481 GHICSSHPSGCCCTVSNSWNCDCGEVLHSAAIEVRYHCOLVRFLARGIBENPKPDHS 537  
 Db 481 GHICSSHPSGCCCTVSNSWNCDCGEVLHSAAIEVRYHCOLVRFLARGIBENPKPDHS 537

**RESULT 9**  
 US-10-876-281-6  
 Sequence 6, Application US/10876281  
 Publication No. US20050123942A1  
 GENERAL INFORMATION:  
 APPLICANT: RASTELLI, LUCA  
 TITLE OF INVENTION: NOVEL SPHINGOSINE KINASES AND NUCLEIC ACIDS ENCODING  
 TITLE OF INVENTION: SAME  
 CURRENT APPLICATION NUMBER: US/10/876,281  
 CURRENT FILING DATE: 2004-06-24  
 PRIORITY NUMBER: US/09/784,810  
 PRIORITY FILING DATE: 2001-02-14  
 PRIORITY APPLICATION NUMBER: 60/182,360  
 PRIORITY FILING DATE: 2000-02-14  
 PRIORITY APPLICATION NUMBER: 60/191,261  
 SEQ ID NO 6  
 PRIORITY FILING DATE: 2000-03-22  
 NUMBER OF SEQ ID NOS: 29  
 SOFTWARE: PatentIn Ver. 2.1

Query Match 85.1%; Score 2456.5; DB 18; Length 471;  
 Best Local Similarity 97.5%; Pred. No. 2.4e-235; Prod. No. 2.4e-235;  
 Matches 1; Mismatches 0; Indels 11; Gaps 1;

QY 78 MKPYAFTTHCVKRAARRHWRKWAQVTFWCPEBQLCHMLQTLREMLEKLTSRPKHLVYFI 137  
 Db 1 MKPYAFTTHCVKRAARRHWRKWAQVTFWCPEBQLCHMLQTLREMLEKLTSRPKHLVYFI 60

QY 138 NPFGKGKGOKRIVYERKVAPLFTLASITDII-----VTEHANOAKETLYEINID 186  
 Db 61 NPFGKGKGOKRIVYERKVAPLFTLASITDII-----VTEHANOAKETLYEINID 186

**RESULT 8**  
 US-09-784-810A-6  
 Sequence 6, Application US/09784810A  
 Patent No. US20020082203A1  
 GENERAL INFORMATION:  
 APPLICANT: RASTELLI, LUCA  
 TITLE OF INVENTION: NOVEL SPHINGOSINE KINASES AND NUCLEIC ACIDS ENCODING  
 TITLE OF INVENTION: SAME  
 FILE REFERENCE: 10/16-08  
 CURRENT APPLICATION NUMBER: US/09/784,810A  
 CURRENT FILING DATE: 2001-02-14  
 PRIORITY NUMBER: 60/182,360  
 PRIORITY FILING DATE: 2000-02-14  
 PRIORITY APPLICATION NUMBER: 60/191,261  
 PRIORITY FILING DATE: 2000-03-22  
 NUMBER OF SEQ ID NOS: 29  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 6  
 LENGTH: 471  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-784-810A-6

Query Match 85.1%; Score 2456.5; DB 9; Length 471;  
 Best Local Similarity 97.5%; Pred. No. 2.4e-235; Prod. No. 2.4e-235;  
 Matches 1; Mismatches 0; Indels 11; Gaps 1;

QY 78 MKPYAFTTHCVKRAARRHWRKWAQVTFWCPEBQLCHMLQTLREMLEKLTSRPKHLVYFI 137  
 Db 1 MKPYAFTTHCVKRAARRHWRKWAQVTFWCPEBQLCHMLQTLREMLEKLTSRPKHLVYFI 60

QY 138 NPFGKGKGOKRIVYERKVAPLFTLASITDII-----VTEHANOAKETLYEINID 186  
 Db 61 NPFGKGKGOKRIVYERKVAPLFTLASITDII-----VTEHANOAKETLYEINID 120

Query Match 85.1%; Score 2456.5; DB 9; Length 471;  
 Best Local Similarity 97.5%; Pred. No. 2.4e-235; Prod. No. 2.4e-235;  
 Matches 1; Mismatches 0; Indels 11; Gaps 1;

QY 78 MKPYAFTTHCVKRAARRHWRKWAQVTFWCPEBQLCHMLQTLREMLEKLTSRPKHLVYFI 137  
 Db 1 MKPYAFTTHCVKRAARRHWRKWAQVTFWCPEBQLCHMLQTLREMLEKLTSRPKHLVYFI 60

QY 138 NPFGKGKGOKRIVYERKVAPLFTLASITDII-----VTEHANOAKETLYEINID 186  
 Db 61 NPFGKGKGOKRIVYERKVAPLFTLASITDII-----VTEHANOAKETLYEINID 120

QY 187 KYDGIVCVGGMSEVLLGLIGTQRSGAVDQHPRATLVPESSLRIGIIPAGSTDVCY 246  
 Db 121 KYDGIVCVGGMSEVLLGLIGTQRSGAVDQHPRATLVPESSLRIGIIPAGSTDVCY 180

QY 247 STVGTSDAETSALIHLIVVGSISYTHNSTLRLYSVSLIGYGFYCDIILDSSEKRWL 306  
 Db 181 STVGTSDAETSALIHLIVVGSISYTHNSTLRLYSVSLIGYGFYCDIILDSSEKRWL 240

QY 307 GLARYDFSGLKTFLPSLHSHCYEGTVFSPLPAQHTVGSPRDKPCRAACFVCRQSKQLEEFQK 366  
 Db 241 GLARYDFSGLKTFLPSLHSHCYEGTVFSPLPAQHTVGSPRDKPCRAACFVCRQSKQLEEFQK 300

QY 367 KALYGLEAEDVQVCGSKFLAINATNMSACRSPRGLSPAAHLDGSSDLILIRKC 426  
 Db 301 KALYGLEAEDVQVCGSKFLAINATNMSACRSPRGLSPAAHLDGSSDLILIRKC 420

QY 427 SRPNPLFLIRHTNQDQDFDTEVEVRYRKKEFTSKHMEDEDSDLKEGGKRRF 486  
 Db 361 SRPNPLFLIRHTNQDQDFDTEVEVRYRKKEFTSKHMEDEDSDLKEGGKRRF 420

QY 487 HPSCCCTVSNNSWNCDCGEVLHSAAIEVRYHCOLVRFLARGIEENPKPDHS 537  
 Db 421 HPSCCCTVSNNSWNCDCGEVLHSAAIEVRYHCOLVRFLARGIEENPKPDHS 471

RESULT 10  
 US-09-784-810A-11  
 US-09-784-810A-11

QY 326 EKKWGLARYDFSEKLTPLSHCYEGTVSFLPAOHIVSSPRDXPCRAGCFVCRSKQ 385  
 Db 301 EKKWGLARYDFSEKLTPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRSKQ 360  
 QY 386 LEEBOKALYGLEAEDBHQVVCGKFIAINATMSCACRSRGLSPAAHLDGDSSL 445  
 Db 361 LEEBOKALYGLEAEDBHQVVCGKFIAINATMSCACRSRGLSPAAHLDGDSSL 420  
 QY 446 ILIRKCSRFNLFRLIRITNQDQDFDTFVEVTRVKCQFTSKHMEDESDLKEGGKRF 505  
 Db 421 ILIRKCSRFNLFRLIRITNQDQDFDTFVEVTRVKCQFTSKHMEDESDLKEGGKRF 480

RESULT 11  
 US-10-631-958-10  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kossida, Sophia  
 ; TITLE OF INVENTION: Regulation of human Sphingosine  
 ; FILE REFERENCE: 004974\_00594  
 ; CURRENT APPLICATION NUMBER: US/10/631\_558  
 ; CURRENT FILING DATE: 2003-08-01  
 ; PRIOR APPLICATION NUMBER: US/09/969\_896  
 ; PRIOR FILING DATE: 2001-10-04  
 ; PRIOR APPLICATION NUMBER: US 60/238, 005  
 ; PRIOR FILING DATE: 2000-10-06  
 ; PRIOR APPLICATION NUMBER: US 60/314, 113  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SEQ ID NO 10  
 ; LENGTH: 537  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-631-958-10

Query Match 95.5%; Score 2886; DB 32; Length 537;  
 Best Local Similarity 100.0%; Pred. No. 5e-279;  
 Matches 537; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 MGATGAAPLOSSVLWVQQRCAVSLEPARALLWRWSGPAGARGADACSVPSBIIAV 85  
 Db 1 MGATGAEPLOSSVLWVQQRCAVSLEPARALLWRWSGPAGARGADACSVPSBIIAV 60  
 QY 86 BETDYHKHOSSGRKWMKEMPEAYTIVCVRARRHWRKWAQVTIPNCPEBQLHMTCTLR 145  
 Db 61 BETDYHKHOSSGRKWMKEMPEAYTIVCVRARRHWRKWAQVTIPNCPEBQLHMTCTLR 120  
 QY 146 EMLEKLTSRPKHLYPINKPGKGOKRIVYERKVALPLTLASITTDIVTEHANQAKETL 205.  
 Db 121 EMLEKLTSRPKHLYPINKPGKGOKRIVYERKVALPLTLASITTDIVTEHANQAKETL 180  
 QY 206 YEINIDKYDGIVCYGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGS 265  
 Db 181 YEINIDKYDGIVCYGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGP 240  
 QY 266 TDCYCYSTGTSDAITSALHIVVCDSLAMDVSYVHNNTSLRYSYSLGVGYGDIIKDS 325  
 Db 241 TDCYCYSTGTSDAITSALHIVVDSLAMDVSYVHNNTSLRYSYSLGVGYGDIIKDS 300  
 QY 326 EKKWLGILARYDFSGLKPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 385  
 Db 301 EKKWLGILARYDFSGLKPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 360  
 QY 386 YBINIDKYDGIVCYGGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGS 265  
 Db 181 YBINIDKYDGIVCYGGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGS 240  
 QY 266 TDCYCYSTGTSDAITSALHIVVGSLANDVSYVHNNTSLRYSYSLGVGYGDIIKDS 325  
 Db 241 TDCYCYSTGTSDAITSALHIVVGSLANDVSYVHNNTSLRYSYSLGVGYGDIIKDS 300  
 QY 326 EKKWGLARYDFSEKLTPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 385  
 Db 301 EKKWGLARYDFSEKLTPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 360  
 QY 386 LEEBOKALYGLEAEDBHQVVCGKFIAINATMSCACRSRGLSPAAHLDGDSSL 445  
 Db 361 LEEBOKALYGLEAEDBHQVVCGKFIAINATMSCACRSRGLSPAAHLDGDSSL 420

RESULT 12  
 US-10-315-597A-2  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Suguri, Masako  
 ; APPLICANT: Kono, Keita  
 ; APPLICANT: Kohama, Takafumi  
 ; TITLE OF INVENTION: Ceramide Kinase and DNA Encoding It  
 ; FILE REFERENCE: 02658C1P/HG  
 ; CURRENT APPLICATION NUMBER: US/10/315\_597A  
 ; CURRENT FILING DATE: 2002-12-10  
 ; PRIOR APPLICATION NUMBER: JP 2000-178039  
 ; PRIOR FILING DATE: 2000-06-14  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: Patentin Ver. 2.0  
 ; SEQ ID NO 2  
 ; LENGTH: 537  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-315-597A-2

Query Match 95.2%; Score 2880; DB 29; Length 537;  
 Best Local Similarity 99.6%; Pred. No. 3.e-278;  
 Matches 535; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 26 MGATGAEPLOSSVLWVQQRCAVSLEPARALLWRWSGPAGARGADACSVPSBIIAV 85  
 Db 1 MGATGAEPLOSSVLWVQQRCAVSLEPARALLWRWSGPAGARGADACSVPSBIIAV 60  
 QY 86 BETDYHKHOSSGRKWMKEMPEAYTIVCVRARRHWRKWAQVTIPNCPEBQLHMTCTLR 145  
 Db 61 BETDYHKHOSSGRKWMKEMPEAYTIVCVRARRHWRKWAQVTIPNCPEBQLHMTCTLR 120  
 QY 146 EMLEKLTSRPKHLYPINKPGKGOKRIVYERKVALPLTLASITTDIVTEHANQAKETL 205.  
 Db 121 EMLEKLTSRPKHLYPINKPGKGOKRIVYERKVALPLTLASITTDIVTEHANQAKETL 180  
 QY 206 YEINIDKYDGIVCYGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGS 265  
 Db 181 YEINIDKYDGIVCYGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGP 240  
 QY 266 TDCYCYSTGTSDAITSALHIVVCDSLAMDVSYVHNNTSLRYSYSLGVGYGDIIKDS 325  
 Db 241 TDCYCYSTGTSDAITSALHIVVDSLAMDVSYVHNNTSLRYSYSLGVGYGDIIKDS 300  
 QY 326 EKKWLGILARYDFSGLKPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 385  
 Db 301 EKKWLGILARYDFSGLKPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 360  
 QY 386 YBINIDKYDGIVCYGGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGS 265  
 Db 181 YBINIDKYDGIVCYGGDMSEVHLGLIGRTQSAVGVDQHPRAVLVPSLRLIGTIPAGS 240  
 QY 266 TDCYCYSTGTSDAITSALHIVVGSLANDVSYVHNNTSLRYSYSLGVGYGDIIKDS 325  
 Db 241 TDCYCYSTGTSDAITSALHIVVGSLANDVSYVHNNTSLRYSYSLGVGYGDIIKDS 300  
 QY 326 EKKWGLARYDFSEKLTPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 385  
 Db 301 EKKWGLARYDFSEKLTPLSHCYEGTVSFLPAOHIVSSPRDKPCRAGCFVCRQSQQ 360  
 QY 386 LEEBOKALYGLEAEDBHQVVCGKFIAINATMSCACRSRGLSPAAHLDGDSSL 445  
 Db 361 LEEBOKALYGLEAEDBHQVVCGKFIAINATMSCACRSRGLSPAAHLDGDSSL 420

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